Racine County



People with Chronic Conditions

Provided by the Wisconsin Information for State Health Policy Program, a program funded by the Division of Health and the Robert Wood Johnson Foundation.

Comments and suggestions on improving the profiles may be addressed to:

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FOREWORD

Community Health Profiles: People with Chronic Conditions is the third in a series of three subject-specific profiles. These profiles were developed to provide information that will contribute to the appropriate use of long-term care services for people with chronic conditions. The first profile in the series is about pregnant women and infants; the second is about children.

The profiles evolved from a series of discussions, begun in 1992, between decision-makers in Wisconsin who met to identify key health policy issues for which information was needed. The Wisconsin Information for State Health Policy Program (InfoSHPP), which seeks to improve the availability and usefulness of health information for policy-makers in the state, was an outgrowth of those discussions.

During the early phases of InfoSHPP, local communities were recognized as the primary arenas for implementing an effective long-term care system. In response, profiles to address the need for local information were developed for 89 distinct geographical areas of the state:

- each Wisconsin county;
- each of Wisconsin's five largest cities (Kenosha, Madison, Milwaukee, Racine, and Green Bay);
- a selected group of zip codes in the city of Milwaukee;
- the five Division of Health regions; and for the state as a whole.

This profile includes information about chronic conditions (defined by selected diagnoses) which program and policy decision-makers identified as high priority. These diagnoses and the associated International Classification of Disease--Ninth Revision disease codes are listed in the Technical Notes.

Community Health Profiles: People with Chronic Conditions makes a special contribution to local health information by providing:

- a focus on the specific topic of chronic health conditions;
- information in a user-friendly format;
- information from a variety of data sources, including both population-based and program participant information;
- a narrative highlighting related *statewide* information for each table and graph;
- graphs for comparable statewide, regional and local information (statewide and regional information is shown, even when numbers are too small to present for local areas);
- comparisons between actual and expected values, based on statewide rates, for selected health measures.

Many people contributed their time and ideas through a collaborative planning process to produce these profiles. Special acknowledgment goes to the chronic conditions work group formed in connection with the Information for State Health Policy Program; the Chronic Disease Section, Bureau of Public Health, and the Bureau of Health Care Financing, Division of Health; the Bureau on Aging and the Bureau of Long-Term Support, Division of Supportive Living; the Bureau of Management and Operations, Division of Children and Family Services; the Demographic Services Center, Department of Administration; and the Office of Health Care Information, Office of the Commissioner of Insurance.

The profiles were prepared in the Center for Health Statistics. Bernie Tennis was lead research analyst for the profiles; he had primary responsibility for the content, gathering and summarizing of the data. Angela Bethel performed technical production of the profiles, including creating the tables and graphics and importing the data. Patricia Nametz provided editing and review of the profiles. Patricia Guhleman, InfoSHPP Program Coordinator, provided consultation in all phases of production. Chris Miller proofread the final reports.

The following individuals provided data and expertise: Robert Adler for data from the U.S. Census; Eleanor Cautley and Fred Krantz for data from the Family Health Survey and Behavioral Risk Factor Survey; Laura Owens for data from the hospital inpatient files; Yiwu Zhang for Home Health Survey data; Victor Jesudason for Nursing Home Survey data; Richard Betz for Community Options Program (COP), Medicaid (MA) Waiver, and Community-Based Residential Facility (CBRF) data; Laura Stevenson-Vine for Cancer Reporting System data; Ed Seiser for CBRF data; and Dan Spencer for Medicaid data.

Your comments and suggestions on improving the profiles are appreciated. Please direct them to Bernie Tennis (608-267-9090 or tennib@dhfs.state.wi.us) or Patricia Guhleman (608-267-5221 or guhlepa@dhfs.state.wi.us) at the Center for Health Statistics. On the Internet, go to: http://www.dhfs.state.wi.us/ for instructions about accessing the profiles.

Requests for additional profiles should be addressed to:

Center for Health Statistics Division of Health Wisconsin Department of Health and Family Services P.O. Box 309, Room 172 Madison WI 53701-0309

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DEMOGRAPHICS

Table 1. Population by Age, 1990 and Selected Years

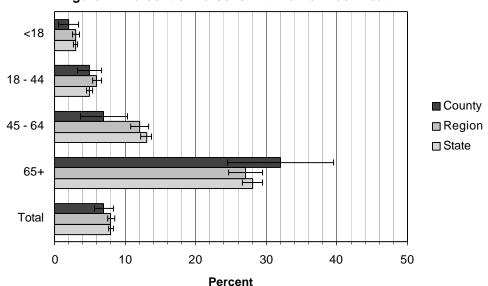
Age	1990	% Female	1994	2000	2010
<18	48,761	49%	49,610	50,052	46,919
18-34	45,604	51	41,170	38,736	41,966
35-44	26,411	50	29,960	30,232	22,251
45-54	18,118	51	21,720	25,929	29,700
55-64	15,063	51	15,550	16,867	24,285
65-74	12,161	56	12,720	12,160	13,837
75-84	6,719	63	8,030	8,149	8,254
85+	2,197	73	2,570	2,875	3,689
Total	175,034	51%	181,330	185,000	190,901

Source: 1990 data are from the U.S. Census of Population and Housing, Modified Age-Race-Sex (MARS) file. 1994 estimates are from the Wisconsin Center for Health Statistics. Projections for 2000 and 2010 are from the Demographic Services Center, Wisconsin Department of Administration.

Statewide, the number of people age 55 and over is expected to increase by onethird during the 20-year interval from 1990 to 2010.

HEALTH STATUS

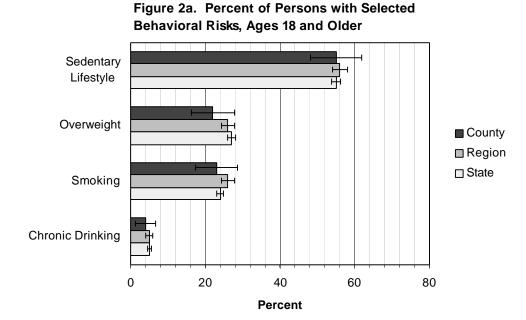
Figure 1. Percent of Persons with Fair or Poor Health



Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

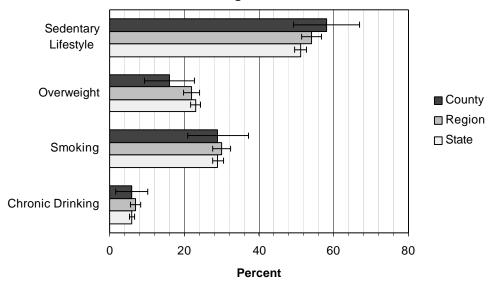
Note: Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Older people are more likely than younger people to perceive their health as fair or poor. Statewide, about 28 percent of older people (age 65 and over) perceive their health as either fair or poor, compared with about 13 percent of people ages 45-64.



About half of Wisconsin adults engage in little or no leisure-time physical activity (sedentary lifestyle), making this the most prevalent behavioral risk to health.

Figure 2b. Percent of Persons with Selected Behavioral Risks, Ages 18-44



For people ages 18-44, sedentary lifestyle ranks first in statewide prevalence of behavioral risks to health; smoking cigarettes constitutes the second most common behavioral risk.

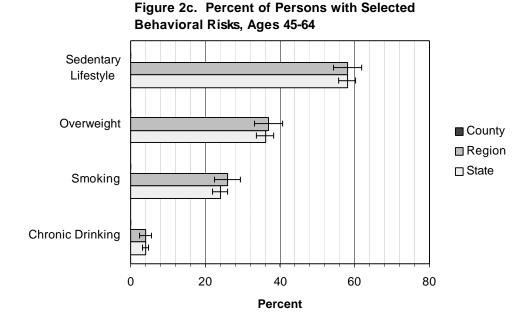
Source: Wisconsin Behavioral Risk Factor Survey, 1990-1994 combined data for all

indicators except "sedentary lifestyle" (1989-1992, 1994), Center for Health

Statistics.

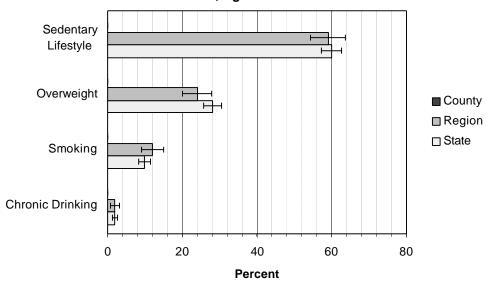
Note: See Technical Notes for definitions of behavioral risks. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). County estimates

based on fewer than 100 interviews are not shown.



Among middle-aged people (ages 45-64), being overweight represents the second leading behavioral risk (about 36 percent statewide), and smoking ranks third (24 percent).

Figure 2d. Percent of Persons with Selected Behavioral Risks, Ages 65 and Older



Statewide, sedentary lifestyle and being overweight represent the most prevalent behavioral risks to people age 65 and over (about 60 percent and 28 percent, respectively).

Source: Wisconsin Behavioral Risk Factor Survey, 1990-1994 combined data for all

indicators except "sedentary lifestyle" (1989-1992, 1994), Center for Health

Statistics.

Note: See Technical Notes for definitions of behavioral risks. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). County estimates

based on fewer than 100 interviews are not shown.

Table 2a. Percent of Persons Reported to Have Selected Chronic Conditions, All Ages

	Cou	inty	Region	State
Chronic Condition	Percent	(+/-)	Percent	Percent
Cancer	4	(1)	3	3
Diabetes	2	(1)	3	3
Hypertension	12	(2)	11	11
Coronary Heart Disease	4	(1)	4	4
Heart Attack	2	(1)	2	2
Stroke	1	(0)	1	1
Asthma	7	(1)	9	8
Emphysema or Chronic				
Bronchitis	3	(1)	3	3
Arthritis	11	(2)	11	11
Any of the above	30	(2)	30	30

In Wisconsin, about 30 percent of all people report at least one chronic health condition, with arthritis and hypertension (high blood pressure) being the most frequently named conditions.

Table 2b. Percent of Persons Reported to Have Selected Chronic Conditions, by Age Groups

	<65			65+				
	Cou	ınty	Region	State	County		Region	State
Chronic Condition	%	(+/-)	%	%	%	(+/-)	%	%
Cancer	3	(1)	2	2	15	(6)	12	13
Diabetes	1	(1)	2	2	8	(4)	10	11
Hypertension	8	(2)	8	8	39	(8)	43	41
Coronary Heart Disease	2	(1)	2	2	23	(7)	23	21
Heart Attack	1	(1)	1	1	8	(4)	10	10
Stroke	1	(0)	0	0	1	(2)	6	6
Asthma	7	(1)	9	8	8	(4)	7	8
Emphysema or Chronic								
Bronchitis	2	(1)	2	2	9	(4)	7	7
Arthritis	8	(2)	8	7	35	(8)	44	45
Any of the above	24	(2)	25	24	71	(7)	77	78

Statewide, about one-fourth of all people under age 65 report at least one chronic health condition, compared with more than three-fourths of all people age 65 and over.

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is based on persons who have ever been told by a doctor they have the listed condition. 95% confidence intervals are shown for county estimates only, because they are based on smaller sample sizes than the estimates for the regions and the state (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Table 3. Actual and Expected New Cancer Cases by Site

	Annual		1994	
	Average			Significant
Primary Site	1989-1993	Actual	Expected	Difference
Females				_
Breast	113	119	126	
Colorectal	50	40	52	
Lung, Trachea &				
Bronchus	45	51	44	
Cervical	20	11	31	**
Other Sites	160	166	165	
All Sites	388	387	418	
Males				
Colorectal	54	56	55	
Lung, Trachea & Bronchus	71	62	65	
Prostate	97	134	125	
Other Sites	157	170	171	
All Sites	379	422	416	
Total				
Colorectal	104	96	107	
Lung, Trachea & Bronchus	116	113	109	
Other Sites	547	600	618	
All Sites	767	809	834	
Source: Wisconsin Cancer	r Reporting System, C	Center for Health	Statistics.	_

Note: The "expected" number of new cases for 1994 was calculated based on statewide cancer incidence rates by age and sex (see Technical Notes). The last column indicates where there was a statistically significant difference between the expected number of new cases in 1994 and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.

Statewide, breast cancer accounted for about one-fourth of newly reported cancers among Wisconsin women in 1994. Prostate cancer represented about 30 percent of reported cancer incidence among men.

Lung cancer and colorectal cancer each accounted for 13 percent of total cancer incidence in 1994.

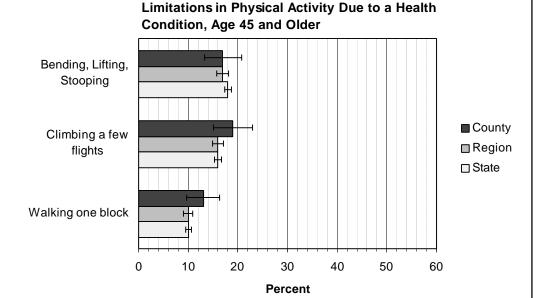
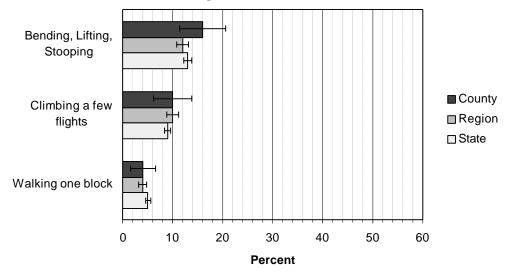


Figure 3a. Percent of Persons with Reported

Among all people age 45 and over in Wisconsin, a health condition limits physical bending, lifting or stooping for about 18 percent; climbing two flights of stairs for about 16 percent; and walking one block for about 10 percent.

Figure 3b. Percent of Persons with Reported Limitations in Physical Activity Due to a Health Condition, Ages 45-64

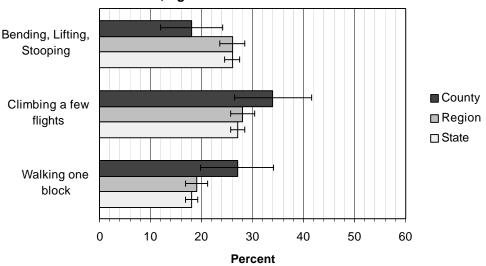


Among people ages 45-64, about 13 percent statewide indicate a limitation in bending, lifting or stooping due to a health condition.

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is the proportion of adults whose health limits them in performing the listed activity. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Figure 3c. Percent of Persons with Reported Limitations in Physical Activity Due to a Health Condition, Age 65 and Older



Statewide, more than one-fourth of people age 65 and over face physical limitations in climbing stairs (about 27 percent) or bending, lifting, or stooping (about 26 percent).

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is the proportion of adults whose health limits them in performing the listed

activity. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

USE OF SERVICES

Note:

Table 4. Number of Home Health Recipients with Chronic Conditions, 1994

	Develop.			Other
	or Phys.	Mental	CNS	Chronic
Age	Disability	Illness	Disorder	Condition
<55	82	1	18	150
55-64	16	3	6	74
65-74	5	7	4	157
75+	5	20	18	347
Total	108	31	46	728

Source: Wisconsin Annual Survey of Home Health Agencies, Center for Health Statistics.

This table provides unduplicated counts for 1994 of home health agency patients with chronic conditions; that is, patients whose primary diagnosis was a developmental or physical disability; a mental illness; a central nervous system (CNS) disorder, such as multiple sclerosis; or some other chronic condition. See Technical Notes for more detail about these categories. Counts of home health agency patients in various diagnostic categories are by *location of the agency*.

A chronic condition represented the primary diagnosis for about 29,000 clients of Wisconsin home health agencies in 1994.

Table 5. Number of Residents of Skilled Nursing Facilities (SNFs) on December 31, 1994

	Develop.	Mental	Physical	All
Age	Disability	Illness	Disability	Others
<65	7	30	3	69
65-74	4	37	2	95
75-84	2	121	1	280
85+	0	152	1	395
Total	13	340	7	839

Source: Wisconsin Annual Survey of Nursing Homes, Center for Health Statistics.

Note: SNFs are nursing homes licensed to provide medical care needed to restore residents to their rehabilitation potential. This table reflects an unduplicated count of all SNF residents; the count is by *location of the facility*. All SNF residents (regardless of diagnosis) are included in this table. See Technical Notes for detail about the diagnostic categories.

Table 6. Number of Persons Enrolled in the Community Options Program (COP) and Medicaid Waiver Programs in 1994

	- 6 (,			
Age	Frail Elderly	Develop. Disability	Mental Illness	Physical Disability	Other
<18	0	9	1	0	0
18-44	0	113	42	20	0
45-54	0	33	26	6	0
55-64	0	15	48	4	0
65-74	93	0	0	0	0
75-84	134	0	0	0	0
85+	80	0	0	0	0
Total	307	170	117	30	0

Source: Wisconsin Human Services Reporting System.

Note: This table provides unduplicated counts of all persons enrolled in the COP and Medicaid waiver programs (CIP2, COP-W, CIP1A, CIP1B, CSLA), which are state-supervised and county-administered programs that provide community-based services to nursing-home-eligible persons. The count in this table reflects *county of residence*. See Technical Notes for more detail about the diagnostic categories.

In 1994, about half of all residents of Wisconsin skilled nursing facilities (SNFs) were age 85 or older.

Statewide, about 18,000 people were enrolled in the Community Options Program or Medicaid waiver programs in 1994; about half the enrollees were under age 65.

Table 7. Number of Publicly-Funded Residents of Community-Based Residential Facilities (CBRFs) in 1994

	Develop.	Mental	Physical		
Age	Disability	Illness	Disability	AODA	Other
18-44	42	51	2	105	9
45-64	25	36	1	9	4
65-74	1	6	1	0	15
75-84	1	1	0	0	36
85+	0	0	0	1	30
Total	69	94	4	115	94

Source: Wisconsin Human Services Reporting System.

Note:

A CBRF is a home or facility where three or more adults live and receive supportive services in daily living, care, treatment, or protective services beyond room and board; CBRF services may not include nursing care on a permanent basis. This table provides unduplicated counts of persons whose residence in a CBRF in 1994 was publicly funded. (No counts of private-pay CBRF residents are available.) The count is by *resident's county of origin*. Fifty-two residents statewide were reported to be under 18 years of age, and were not included in this table. See Technical Notes for more detail about the resident categories.

Statewide, mental illness constituted the most prevalent primary diagnosis among residents with public funding in community-based residential facilities in 1994.

Table 8. Number of Residents of Facilities for the Developmentally Disabled (FDDs) on December 31. Selected Years

	1990	1992	1994
Total	146	180	170

Source: Wisconsin Annual Survey of Nursing Homes, Center for Health Statistics.

Note:

FDDs are nursing homes licensed to provide active treatment and services to residents who are developmentally disabled, primarily due to mental retardation or cerebral palsy. This table reflects an unduplicated count of all FDD residents each year on December 31; the count is by *resident's county of origin*.

Statewide, there were about 3,400 residents in facilities for the developmentally disabled in 1994, nearly 500 fewer than in 1990.

Table 9. Number of Hospitalizations for Selected Chronic Conditions, by Age, 1994

Chronic Conditions	<18	18-44	45-64	65-74	75+			
AIDS/HIV	0	4	1	0	0			
Cancer								
Breast	0	11	50	12	20			
Colorectal	0	3	21	24	40			
Lung, Trachea, & Bronchus	0	4	20	25	15			
Cervical	0	3	8	0	3			
Prostate	0	0	31	43	12			
Other Cancers	22	152	229	141	106			
Diabetes	22	59	86	54	37			
Mental Illness								
Affective Disorders	111	370	130	30	34			
Schizophrenias/Psychoses	5	188	54	0	7			
Anxiety/Char Dis Inc Deprsn	20	71	16	4	3			
Dementias	0	2	6	12	52			
Alcohol and Other Drug								
Abuse	22	330	27	4	0			
Other Mental Illness	56	27	3	0	0			
Paralysis & Cerebral Palsy	0	3	3	2	1			
Hypertension	0	6	5	6	3			
Congestive Heart Failure	1	9	84	152	284			
Coronary Heart Disease	0	53	404	312	262			
Stroke	0	19	103	147	233			
Asthma	83	72	47	21	21			
Other Chronic Lung Disease	2	3	56	54	53			
Liver Disease/Cirrhosis	0	12	35	13	1			
Other Chronic Condition	56	290	298	244	224			
Total Hospitalizations for	Total Hospitalizations for							
Chronic Conditions	400	1,691	1,717	1,300	1,411			
Total Hospitalizations	4,264	6,732	3,820	2,792	3,408			

Source: Office of Health Care Information, hospital inpatient database.

Note: Data are based on the principal diagnosis only. Conditions shown tend to be associated with long-term involvement with the health care system. See Technical Notes for the ICD-9-CM codes of these conditions.

Corrections to Mental Illness categories made January, 1998

Statewide, a chronic condition constituted the primary diagnosis for about 30 percent of the approximately 602,000 total hospitalizations in 1994.

Table 10. Actual and Expected Hospitalizations for Selected Chronic Conditions

	Annual		1994	_
	Average			Significant
Chronic Condition	1989-1993	Actual	Expected	Difference
AIDS/HIV	4	5	4	_
Cancer				
Breast	98	93	96	
Colorectal	90	88	93	
Lung, Trachea, & Bronchus	73	64	71	
Cervical	8	14	9	
Prostate	79	86	74	
Other Cancers	685	650	668	
Diabetes	256	258	229	*
Mental Illness				
Affective Disorders	554	675	469	**
Schizophrenias/Psychoses	234	254	179	**
Anxiety/Char Dis Inc Deprsn	116	114	126	
Dementias	66	72	64	
Alcohol and Other Drug				
Abuse	372	383	354	
Other Mental Illness	62	86	56	**
Paralysis & Cerebral Palsy	7	9	7	
Hypertension	29	20	28	
Congestive Heart Failure	532	530	529	
Coronary Heart Disease	1,123	1,031	1,101	*
Stroke	467	502	502	
Asthma	287	244	216	*
Other Chronic Lung Disease	151	168	228	**
Liver Disease/Cirrhosis	46	61	39	**
Other Chronic Conditions	1,097	1,112	1,153	
Total Hospitalizations for				
Chronic Conditions	6,436	6,519	6,295	**

Source: Office of Health Care Information, hospital inpatient database.

Note: Data are based on the principal diagnosis only. Conditions shown tend to be associated with long-term involvement with the health care system. See Technical Notes for the ICD-9-CM codes of these conditions. The "expected" number of hospitalizations was calculated based on statewide hospitalization rates by age and sex (see Technical Notes). The last column indicates where there was a statistically significant difference between the expected number of hospitalizations and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.

Corrections to Mental Illness categories made January, 1998

Coronary heart disease, congestive heart failure, stroke, cancer and chronic lung disease accounted for more than half of all 1994 Wisconsin hospitalizations for which a chronic condition constituted the primary diagnosis.

Table 11. Hospitalizations for a Chronic Condition with a Secondary Diagnosis of Diabetes, by Principal Diagnosis, 1994

Principal Diagnosis	<55	55-74	75+	Total
Mental Illness	27	14	7	48
Coronary Heart Disease	47	104	52	203
Stroke	2	53	42	97
Chronic Lung Disease	14	19	3	36
Other Chronic Condition	67	252	146	465
Total	157	442	250	849

Source: Office of Health Care Information, hospital inpatient database.

Note: This table presents only those hospitalizations with a secondary diagnosis of diabetes for which the principal diagnosis was one of the selected chronic conditions examined. Diabetes is also associated with hospitalizations for complications not shown here, such as limb amputations and kidney failure.

Table 12. Medicaid-Reimbursed Health Services for People with Chronic Conditions, 1994

		Payment
Services	Number of Recipients	(in thousands)
Hospitalizations - Inpatient	1,713	\$10,146
Hospitalizations- Outpatient	3,783	1,832
Nursing Home	1,216	32,980
Physician	7,636	3,554
Pharmacy	7,698	5,555
Home Care	334	2,406
Mental Health	2,203	1,021
Therapies	840	1,583
Other	7,635	4,413
Total	8,495	\$63,492

Source: Medicaid Claims, Bureau of Health Care Financing.

Note: The counts in this table do not include any services provided by an HMO. "Therapies" include physical therapy, occupational therapy, speech and hearing therapy, group therapy, and comprehensive outpatient therapy provided by rehabilitation agencies. "Other" includes emergency room, durable medical equipment, lab and X-ray, dental, transportation, HealthCheck, and all other Medicaid services. See Technical Notes for list of chronic conditions and their ICD-9-CM codes.

About 14 percent of all hospitalizations for a chronic condition included a secondary diagnosis of diabetes.

Statewide, Medicaid paid about \$1.6 billion for services to people with chronic health conditions in 1994.

MORTALITY

Table 13. Mortality Attributed to Selected Chronic Conditions, 1994

Chronic Condition	<45	45-64	65-74	75+
HIV/AIDS	6	0	0	0
Cancer				
Breast	1	11	11	4
Colorectal	2	1	7	21
Lung, Trachea, & Bronchus	5	22	31	28
Cervical	1	1	0	1
Prostate	0	3	5	17
Diabetes	0	5	13	20
Congestive Heart Failure	0	4	3	16
Coronary Heart Disease	8	41	73	245
Stroke	0	9	22	75
Chronic Lung Disease	0	8	21	38
Liver Disease/Cirrhosis	1	10	3	3
Total (Chronic Conditions)	24	115	189	468
Total (All Deaths)	148	228	299	788

In 1994, chronic conditions accounted for about half (24,390) of all Wisconsin deaths.

Source: Resident death certificates, Center for Health Statistics.

Note:

This table reflects the underlying cause of death. Several conditions may be cited on the death certificate; one is selected using criteria established by the National Center for Health Statistics as the "underlying cause of death," that is, "the disease or injury which initiated the chain of events leading directly or indirectly to death." See Technical Notes for ICD-9-CM codes.

Table 14. Actual and Expected Mortality for Selected Chronic Conditions

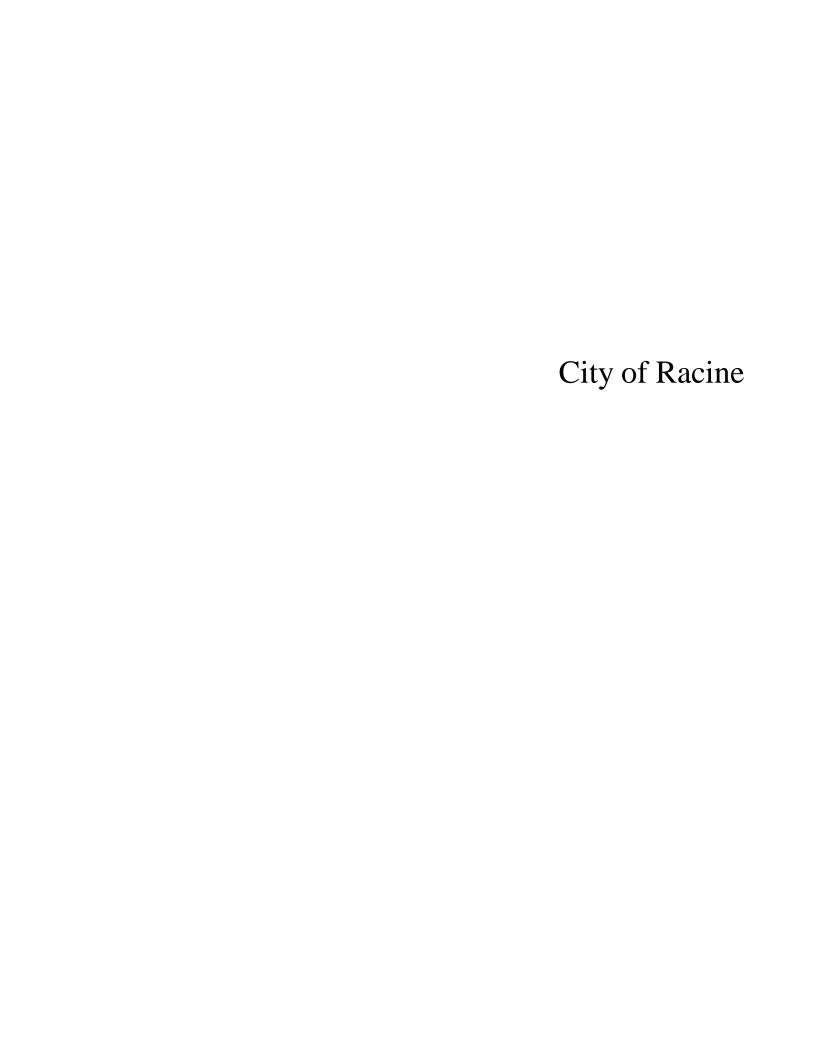
	Annual		1994	
Chronic Condition	Average 1989-1993	Actual	Expected	Significant Difference
HIV/AIDS	6	6	7	Difference
Cancer	O .		,	
Breast	32	27	31	
Colorectal	33	31	39	
Lung, Trachea, & Bronch	us 88	86	87	
Cervical	3	3	3	
Prostate	20	25	27	
Diabetes	34	38	37	
Congestive Heart Failure	22	23	36	*
Coronary Heart Disease	363	367	355	
Stroke	88	106	115	
Chronic Lung Disease	67	67	71	
Liver Disease/Cirrhosis	14	17	12	
Total	770	796	820	

Statewide, coronary heart disease represented the leading cause of death due to a chronic health condition in 1994.

Source: Resident death certificates, Center for Health Statistics.

Note:

This table reflects the underlying cause of death (see note, Table 13). The "expected" number of deaths was based on statewide mortality rates by age and sex (see Technical Notes). The last column indicates whether there was a statistically significant difference between the expected number of deaths and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.



DEMOGRAPHICS

Table 1. Population by Age, 1990 and Selected Years

Age	1990	% Female	1994	2000	2010
<18	24,557	49%	24,505		
18-34	23,288	52	20,620		
35-44	11,589	51	12,894		
45-54	7,077	52	8,321	Projection	s are not
55-64	6,758	54	6,842	available b	elow the
65-74	6,195	58	6,355	county	level.
75-84	3,623	64	4,247		
85+	1,211	72	1,389		
Total	84,298	53%	85,173	85,748	86,039

Source: 1990 data are from the U.S. Census of Population and Housing, Modified Age-Race-Sex (MARS) file. 1994 estimates are from the Wisconsin Center for Health Statistics. Projections for 2000 and 2010 are from the Demographic Services Center, Wisconsin Department of Administration.

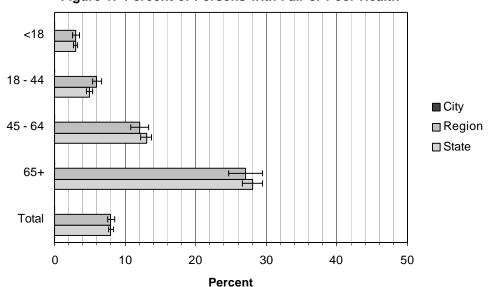
increase by onethird during the 20-year interval from 1990 to 2010.

Statewide, the number of people age 55 and over is

expected to

HEALTH STATUS

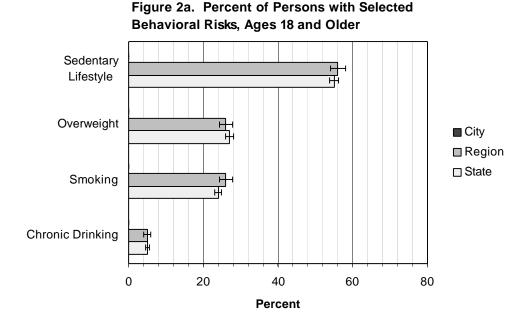
Figure 1. Percent of Persons with Fair or Poor Health



Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

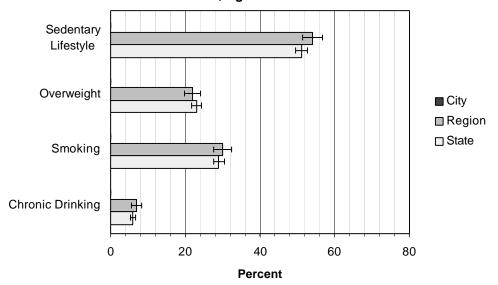
Note: Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Older people are more likely than younger people to perceive their health as fair or poor. Statewide, about 28 percent of older people (age 65 and over) perceive their health as either fair or poor, compared with about 13 percent of people ages 45-64.



About half of Wisconsin adults engage in little or no leisure-time physical activity (sedentary lifestyle), making this the most prevalent behavioral risk to health.

Figure 2b. Percent of Persons with Selected Behavioral Risks, Ages 18-44



For people ages 18-44, sedentary lifestyle ranks first in statewide prevalence of behavioral risks to health; smoking cigarettes constitutes the second most common behavioral risk.

Source: Wisconsin Behavioral Risk Factor Survey, 1990-1994 combined data for all

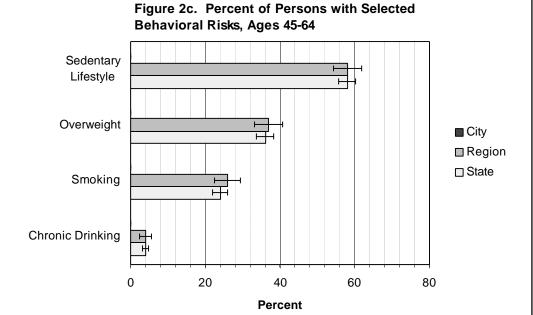
indicators except "sedentary lifestyle" (1989-1992, 1994), Center for Health

Statistics.

Note: See Technical Notes for definitions of behavioral risks. Range indicated on each

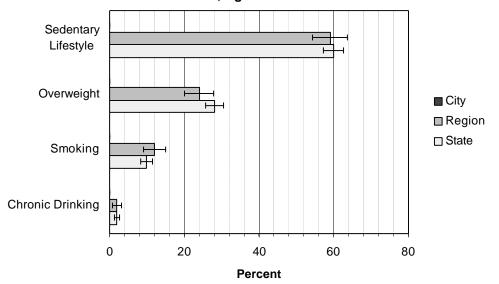
bar represents a 95% confidence interval (see Technical Notes). Estimates based on

fewer than 100 interviews are not shown.



Among middle-aged people (ages 45-64), being overweight represents the second leading behavioral risk (about 36 percent statewide), and smoking ranks third (24 percent).

Figure 2d. Percent of Persons with Selected Behavioral Risks, Ages 65 and Older



Statewide, sedentary lifestyle and being overweight represent the most prevalent behavioral risks to people age 65 and over (about 60 percent and 28 percent, respectively).

Source: Wisconsin Behavioral Risk Factor Survey, 1990-1994 combined data for all

indicators except "sedentary lifestyle" (1989-1992, 1994), Center for Health

Statistics.

Note: See Technical Notes for definitions of behavioral risks. Range indicated on each

bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Table 2a. Percent of Persons Reported to Have Selected Chronic Conditions, All Ages

	City		Region	State
Chronic Condition	Percent	(+/-)	Percent	Percent
Cancer			3	3
Diabetes			3	3
Hypertension			11	11
Coronary Heart Disease	Data for	this	4	4
Heart Attack	table are	e not	2	2
Stroke	available	below	1	1
Asthma	the county	level.	9	8
Emphysema or Chronic				
Bronchitis			3	3
Arthritis			11	11
Any of the above			30	30

In Wisconsin, about 30 percent of all people report at least one chronic health condition, with arthritis and hypertension (high blood pressure) being the most frequently named conditions.

Table 2b. Percent of Persons Reported to Have Selected Chronic Conditions, by Age Groups

			<65		65+			
	C	City Regio		State	City		Region	State
Chronic Condition	%	(+/-)	%	%	%	(+/-)	%	%
Cancer			2	2			12	13
Diabetes			2	2			10	11
Hypertension			8	8			43	41
Coronary Heart Disease			2	2			23	21
Heart Attack			1	1			10	10
Stroke			0	0			6	6
Asthma			9	8			7	8
Emphysema or Chronic								
Bronchitis			2	2			7	7
Arthritis			8	7			44	45
Any of the above			25	24			77	78

Statewide, about one-fourth of all people under age 65 report at least one chronic health condition, compared with more than three-fourths of all people age 65 and over.

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is based on persons who have ever been told by a doctor they have the listed condition. 95% confidence intervals are shown for the city estimates only, because they are based on smaller sample sizes than the estimates for the regions and the state (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Table 3. Actual and Expected New Cancer Cases by Site

	Annual		1994	
	Average			Significant
Primary Site	1989-1993	Actual	Expected	Difference
Females				
Breast	79	93		
Colorectal	36	30		
Lung, Trachea &				
Bronchus	30	30		
Cervical	13	6		
Other Sites	113	115		
All Sites	271	274		
Males				
Colorectal	36	38		
Lung, Trachea &			Expected	values are
Bronchus	45	36	not availa	
Prostate	66	102	the coun	
Other Sites	109	108		10, 10, 010
All Sites	256	284		
Total				
Colorectal	72	68		
Lung, Trachea &	75	66		
Bronchus				
Other Sites	380	424		
All Sites	527	558		

of newly reported cancers among Wisconsin women in 1994. Prostate cancer represented about 30 percent of reported cancer incidence among men.

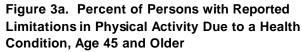
Statewide, breast cancer accounted for about one-fourth

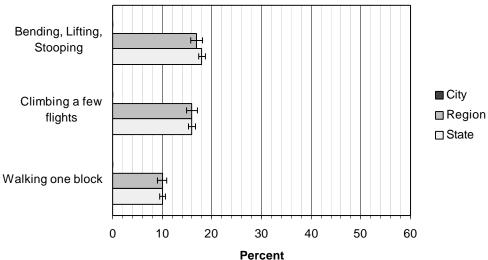
Lung cancer and colorectal cancer each accounted for 13 percent of total cancer incidence in 1994.

Source: Wisconsin Cancer Reporting System, Center for Health Statistics.

Note:

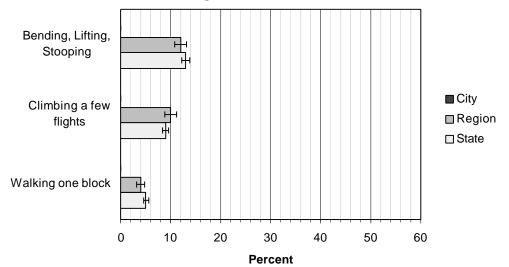
The "expected" number of new cases for 1994 was calculated based on statewide cancer incidence rates by age and sex (see Technical Notes). The last column indicates where there was a statistically significant difference between the expected number of new cases in 1994 and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.





Among all people age 45 and over in Wisconsin, a health condition limits physical bending, lifting or stooping for about 18 percent; climbing two flights of stairs for about 16 percent; and walking one block for about 10 percent.

Figure 3b. Percent of Persons with Reported Limitations in Physical Activity Due to a Health Condition, Ages 45-64

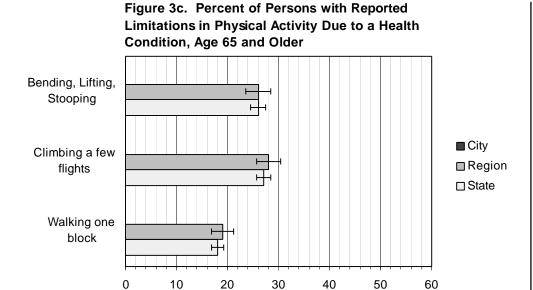


Among people ages 45-64, about 13 percent statewide indicate a limitation in bending, lifting or stooping due to a health condition.

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is the proportion of adults whose health limits them in performing the listed activity. Range indicated on each bar represents a 95% confidence interval (see

Technical Notes). Estimates based on fewer than 100 interviews are not shown.



Statewide, more than one-fourth of people age 65 and over face physical limitations in climbing stairs (about 27 percent) or bending, lifting, or stooping (about 26 percent).

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is the proportion of adults whose health limits them in performing the listed

Percent

activity. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

USE OF SERVICES

Table 4. Number of Home Health Recipients with Chronic Conditions, 1994

	Develop.		G13.7G	Other
	or Phys.	Mental	CNS	Chronic
Age	Disability	Illness	Disorder	Condition
<55				_
55-64		Data for this	table	
65-74		are not avai	lable	
75+	b	elow the coun	ty level.	
7F. 4 1				

Total

Source: Wisconsin Annual Survey of Home Health Agencies, Center for Health Statistics.

Note: This table provides unduplicated counts for 1994 of home health agency patients with chronic conditions; that is, patients whose primary diagnosis was a developmental or physical disability; a mental illness; a central nervous system (CNS) disorder, such as multiple sclerosis; or some other chronic condition. See Technical Notes for more detail about these categories. Counts of home health agency patients in various diagnostic categories are by *location of the agency*.

A chronic condition represented the primary diagnosis for about 29,000 clients of Wisconsin home health agencies in 1994.

Table 5. Number of Residents of Skilled Nursing Facilities (SNFs) on December 31, 1994

	Develop.	Mental	Physical	All
Age	Disability	Illness	Disability	Others
<65	7	29	0	49
65-74	4	30	1	73
75-84	2	98	1	220
85+	0	129	1	315
Total	13	286	3	657

Source: Wisconsin Annual Survey of Nursing Homes, Center for Health Statistics.

Note: SNFs are nursing homes licensed to provide medical care needed to restore residents to their rehabilitation potential. This table reflects an unduplicated count of all SNF residents; the count is by *location of the facility*. All SNF residents (regardless of diagnosis) are included in this table. See Technical Notes for detail about the diagnostic categories.

Table 6. Number of Persons Enrolled in the Community Options Program (COP) and Medicaid Waiver Programs in 1994

	Frail	Develop.	Mental	Physical	·
Age	Elderly	Disability	Illness	Disability	Other
<18					
18-44					
45-54					
55-64		Data	for this ta	ble	
		are	not availab	ole	
65-74		below t	the county	level.	
75-84			· ·		
85+					

Total

Source: Wisconsin Human Services Reporting System.

Note: This table provides unduplicated counts of all persons enrolled in the COP and Medicaid waiver programs (CIP2, COP-W, CIP1A, CIP1B, CSLA), which are state-supervised and county-administered programs that provide community-based services to nursing-home-eligible persons. The count in this table reflects *county of residence*. See Technical Notes for more detail about the diagnostic categories.

In 1994, about half of all residents of Wisconsin skilled nursing facilities (SNFs) were age 85 or older.

Statewide, about 18,000 people were enrolled in the Community Options Program or Medicaid waiver programs in 1994; about half the enrollees were under age 65.

Table 7. Number of Publicly-Funded Residents of Community-Based Residential Facilities (CBRFs) in 1994

Age	Develop. Disability	Mental Illness	Physical Disability	AODA	Other
18-44					
45-64		Data	for this table	e	
65-74		are	not available		
75-84		below t	the county le	vel.	
85+			•		
Total					

Source: Wisconsin Human Services Reporting System.

Note:

A CBRF is a home or facility where three or more adults live and receive supportive services in daily living, care, treatment, or protective services beyond room and board; CBRF services may not include nursing care on a permanent basis. This table provides unduplicated counts of persons whose residence in a CBRF in 1994 was publicly funded. (No counts of private-pay CBRF residents are available.) The count is by *resident's county of origin*. Fifty-two residents statewide were reported to be under 18 years of age, and were not included in this table. See Technical Notes for more detail about the resident categories.

Statewide, mental illness constituted the most prevalent primary diagnosis among residents with public funding in community-based residential facilities in 1994.

Table 8. Number of Residents of Facilities for the Developmentally Disabled (FDDs) on December 31, Selected Years

		1990	1992	1994
Total		Data for this table are	not available below the co	ounty level.
	****	 10 01 1 11	G . C II 11 G .:	•

Source: Wisconsin Annual Survey of Nursing Homes, Center for Health Statistics.

Note:

FDDs are nursing homes licensed to provide active treatment and services to residents who are developmentally disabled, primarily due to mental retardation or cerebral palsy. This table reflects an unduplicated count of all FDD residents each year on December 31; the count is by *resident's county of origin*.

Statewide, there were about 3,400 residents in facilities for the developmentally disabled in 1994, nearly 500 fewer than in 1990.

Table 9. Number of Hospitalizations for Selected Chronic Conditions, by Age, 1994

Chronic Conditions	<18	18-44	45-64	65-74	75+	
AIDS/HIV	0	4	1	0	0	
Cancer						
Breast	0	5	29	11	12	
Colorectal	0	1	10	11	27	
Lung, Trachea, & Bronchus	0	4	12	16	7	
Cervical	0	1	7	0	3	
Prostate	0	0	15	20	9	
Other Cancers	12	98	131	85	62	
Diabetes	18	48	63	34	26	
Mental Illness						
Affective Disorders	70	278	99	17	20	
Schizophrenias/Psychoses	3	145	39	0	7	
Anxiety/Char Dis Inc Deprsn	12	43	11	4	2	
Dementias	0	2	6	7	37	
Alcohol and Other Drug						
Abuse	17	282	19	1	0	
Other Mental Illness	42	25	3	0	0	
Paralysis & Cerebral Palsy	0	2	1	0	1	
Hypertension	0	5	4	6	2	
Congestive Heart Failure	1	9	52	95	180	
Coronary Heart Disease	0	29	211	171	138	
Stroke	0	8	49	82	133	
Asthma	55	49	32	15	13	
Other Chronic Lung Disease	2	2	38	26	27	
Liver Disease/Cirrhosis	0	2	19	5	1	
Other Chronic Condition	30	160	138	130	127	
Total Hospitalizations for						
Chronic Conditions	262	1,202	989	736	834	
Total Hospitalizations	2,794	4,323	2,157	1,571	2,037	

Source: Office of Health Care Information, hospital inpatient database.

Note: Data are based on the principal diagnosis only. Conditions shown tend to be associated with long-term involvement with the health care system. See Technical Notes for the ICD-9-CM codes of these conditions.

Corrections to Mental Illness categories made January, 1998

Statewide, a chronic condition constituted the primary diagnosis for about 30 percent of the approximately 602,000 total hospitalizations in 1994.

Table 10. Actual and Expected Hospitalizations for Selected Chronic Conditions

	Annual		1994		
	Average			Significant	
Chronic Condition	1989-1993	Actual	Expected	Difference	
AIDS/HIV	3	5			
Cancer					
Breast	58	57			
Colorectal	53	49			
Lung, Trachea, & Bronchus	45	39			
Cervical	5	11			
Prostate	48	44			
Other Cancers	413	388			
Diabetes	174	189			
Mental Illness					
Affective Disorders	377	484			
Schizophrenias/Psychoses	182	194	Expected	values are	
Anxiety/Char Dis Inc Deprsn	76	72	not availa	ble below	
Dementias	48	52	the coun	ty level.	
Alcohol and Other Drug				· ·	
Abuse	288	319			
Other Mental Illness	42	70			
Paralysis & Cerebral Palsy	4	4			
Hypertension	18	17			
Congestive Heart Failure	333	337			
Coronary Heart Disease	626	549			
Stroke	280	272			
Asthma	191	164			
Other Chronic Lung Disease	93	95			
Liver Disease/Cirrhosis	30	27			
Other Chronic Conditions	626	585			
Total Hospitalizations for					
Chronic Conditions	4,016	4,023			

Source: Office of Health Care Information, hospital inpatient database.

Note: Data are based on the principal diagnosis only. Conditions shown tend to be associated with long-term involvement with the health care system. See Technical Notes for the ICD-9-CM codes of these conditions. The "expected" number of hospitalizations was calculated based on statewide hospitalization rates by age and sex (see Technical Notes). The last column indicates where there was a statistically significant difference between the expected number of hospitalizations and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.

Corrections to Mental Illness categories made January, 1998

Coronary heart disease, congestive heart failure, stroke, cancer and chronic lung disease accounted for more than half of all 1994 Wisconsin hospitalizations for which a chronic condition constituted the primary diagnosis.

Table 11. Hospitalizations for a Chronic Condition with a Secondary Diagnosis of Diabetes, by Principal Diagnosis, 1994

	/ 0	1 0	,	
Principal Diagnosis	<55	55-74	75+	Total
Mental Illness	23	10	7	40
Coronary Heart Disease	28	55	28	111
Stroke	2	32	19	53
Chronic Lung Disease	12	11	1	24
Other Chronic Condition	48	145	94	287
Total	113	253	149	515

Source: Office of Health Care Information, hospital inpatient database.

Note:

This table presents only those hospitalizations with a secondary diagnosis of diabetes for which the principal diagnosis was one of the selected chronic conditions examined. Diabetes is also associated with hospitalizations for complications not shown here, such as limb amputations and kidney failure.

Table 12. Medicaid-Reimbursed Health Services for People with Chronic Conditions, 1994

Services	Number of Recipients	Payment (in thousands)
Hospitalizations - Inpatient	1,432	\$8,050
Hospitalizations- Outpatient	3,160	1,529
Nursing Home	940	18,747
Physician	6,475	2,971
Pharmacy	6,660	4,755
Home Care	286	2,056
Mental Health	1,937	914
Therapies	749	1,519
Other	6,503	3,785
Total	7.188	\$44,457

Source: Medicaid Claims, Bureau of Health Care Financing.

Note:

The counts in this table do not include any services provided by an HMO. "Therapies" include physical therapy, occupational therapy, speech and hearing therapy, group therapy, and comprehensive outpatient therapy provided by rehabilitation agencies. "Other" includes emergency room, durable medical equipment, lab and X-ray, dental, transportation, HealthCheck, and all other Medicaid services. See Technical Notes for list of chronic conditions and their ICD-9-CM codes.

About 14 percent of all hospitalizations for a chronic condition included a secondary diagnosis of diabetes.

Statewide, Medicaid paid about \$1.6 billion for services to people with chronic health conditions in 1994.

MORTALITY

Table 13. Mortality Attributed to Selected Chronic Conditions, 1994

Chronic Condition	<45	45-64	65-74	75+
HIV/AIDS	4	0	0	0
Cancer				
Breast	0	6	3	2
Colorectal	0	0	3	15
Lung, Trachea, & Bronchus	4	13	18	12
Cervical	1	1	0	1
Prostate	0	2	4	11
Diabetes	0	4	6	11
Congestive Heart Failure	0	1	2	12
Coronary Heart Disease	5	21	40	134
Stroke	0	2	11	41
Chronic Lung Disease	0	6	12	20
Liver Disease/Cirrhosis	1	6	2	1
Total (Chronic Conditions)	15	62	101	260
Total (All Deaths)	91	134	166	419

In 1994, chronic conditions accounted for about half (24,390) of all Wisconsin deaths.

Source: Resident death certificates, Center for Health Statistics.

Note:

This table reflects the underlying cause of death. Several conditions may be cited on the death certificate; one is selected using criteria established by the National Center for Health Statistics as the "underlying cause of death," that is, "the disease or injury which initiated the chain of events leading directly or indirectly to death." See Technical Notes for ICD-9-CM codes.

Table 14. Actual and Expected Mortality for Selected Chronic Conditions

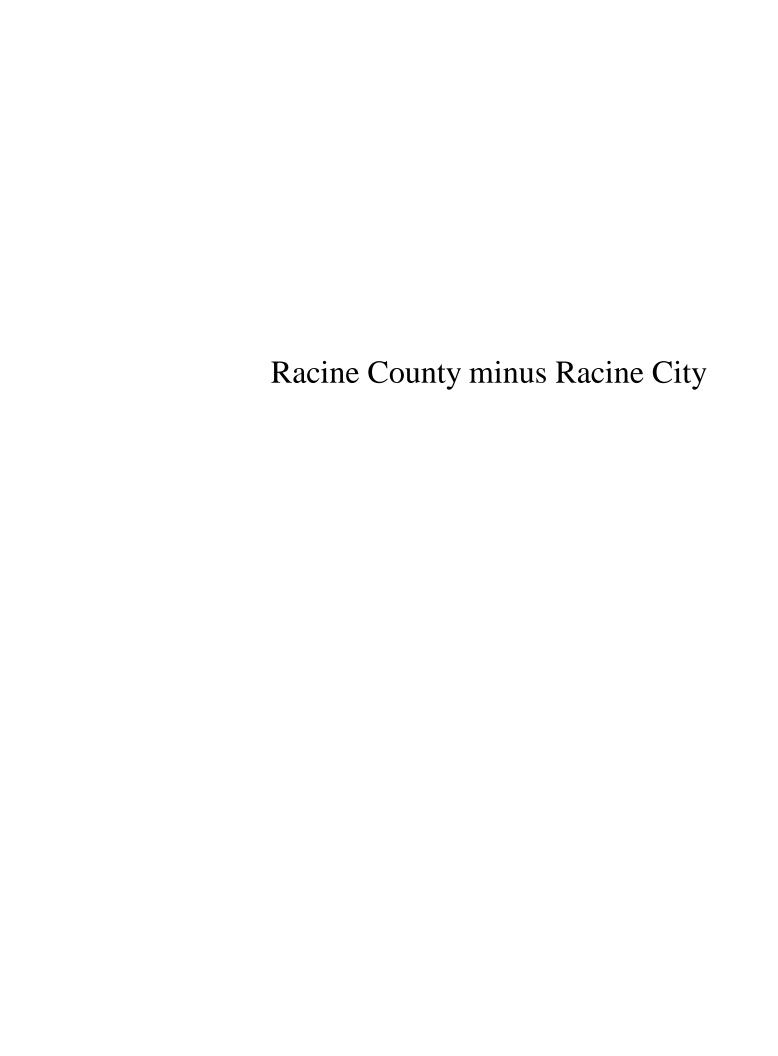
	Annual		1994		
Chronic Condition	Average 1989-1993	Actual	Expected	Significant Difference	
HIV/AIDS	5	4			
Cancer					
Breast	20	11			
Colorectal	20	18			
Lung, Trachea, & Bronch	nus 45	47			
Cervical	2	3	Expected va	alues are	
Prostate	11	17	not availa	ble below	
Diabetes	19	21	the coun	ty level.	
Congestive Heart Failure	13	15		•	
Coronary Heart Disease	190	200			
Stroke	46	54			
Chronic Lung Disease	39	38			
Liver Disease/Cirrhosis	9	10			
Total	418	438	_	_	

Source: Resident death certificates, Center for Health Statistics.

Note:

This table reflects the underlying cause of death (see note, Table 13). The "expected" number of deaths was based on statewide mortality rates by age and sex (see Technical Notes). The last column indicates whether there was a statistically significant difference between the expected number of deaths and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.

Statewide, coronary heart disease represented the leading cause of death due to a chronic health condition in 1994.



DEMOGRAPHICS

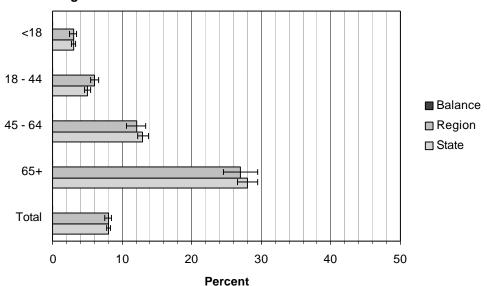
Table 1. Population by Age, 1990 and Selected Years

Age	1990	% Female	1994	2000	2010
<18	24,204	49%	25,105		
18-34	22,316	50	20,550		
35-44	14,822	50	17,066		
45-54	11,041	50	13,399	Projection	ns are not
55-64	8,305	50	8,708	available	below the
65-74	5,966	54	6,365	county	level.
75-84	3,096	62	3,783	•	
85+	986	74	1,181		
Total	90,736	50%	96,157	99,252	104,862

Source: 1990 data are from the U.S. Census of Population and Housing, Modified Age-Race-Sex (MARS) file. 1994 estimates are from the Wisconsin Center for Health Statistics. Projections for 2000 and 2010 are from the Demographic Services Center, Wisconsin Department of Administration.

HEALTH STATUS

Figure 1. Percent of Persons with Fair or Poor Health



Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Statewide, the number of people age 55 and over is expected to increase by onethird during the 20-year interval from 1990 to 2010.

Older people are more likely than younger people to perceive their health as fair or poor. Statewide, about 28 percent of older people (age 65 and over) perceive their health as either fair or poor, compared with about 13 percent of people ages 45-64.

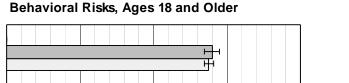
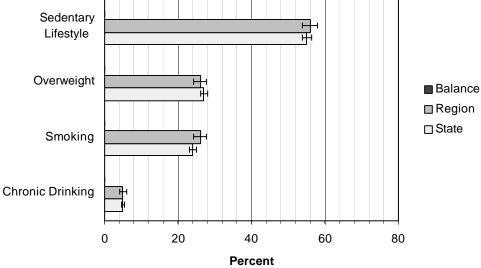
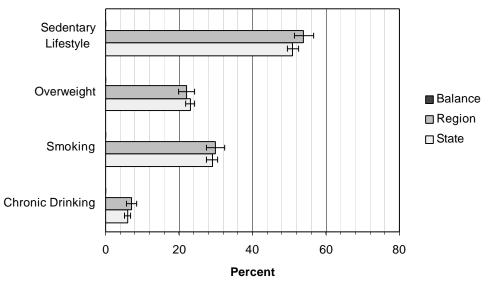


Figure 2a. Percent of Persons with Selected



About half of Wisconsin adults engage in little or no leisure-time physical activity (sedentary lifestyle), making this the most prevalent behavioral risk to health.

Figure 2b. Percent of Persons with Selected Behavioral Risks, Ages 18-44



For people ages 18-44, sedentary lifestyle ranks first in statewide prevalence of behavioral risks to health; smoking cigarettes constitutes the second most common behavioral risk.

Wisconsin Behavioral Risk Factor Survey, 1990-1994 combined data for all Source:

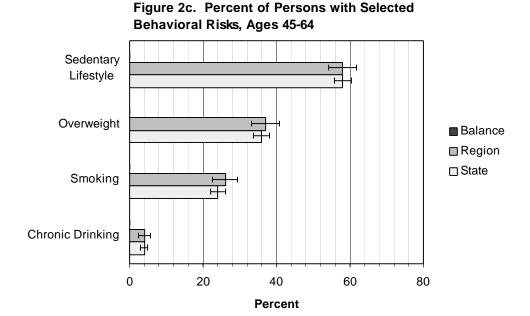
indicators except "sedentary lifestyle" (1989-1992, 1994), Center for Health

Statistics.

See Technical Notes for definitions of behavioral risks. Range indicated on each Note:

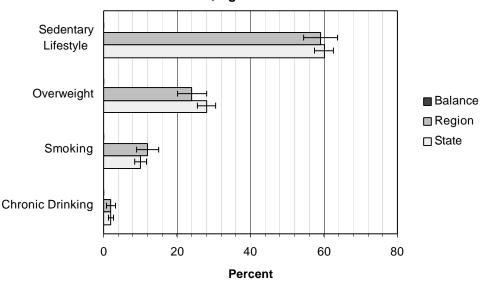
bar represents a 95% confidence interval (see Technical Notes). Estimates based on

fewer than 100 interviews are not shown.



Among middle-aged people (ages 45-64), being overweight represents the second leading behavioral risk (about 36 percent statewide), and smoking ranks third (24 percent).

Figure 2d. Percent of Persons with Selected Behavioral Risks, Ages 65 and Older



Statewide, sedentary lifestyle and being overweight represent the most prevalent behavioral risks to people age 65 and over (about 60 percent and 28 percent, respectively).

Wisconsin Behavioral Risk Factor Survey, 1990-1994 combined data for all Source:

indicators except "sedentary lifestyle" (1989-1992, 1994), Center for Health Statistics.

Note: See Technical Notes for definitions of behavioral risks. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based

on fewer than 100 interviews are not shown.

Table 2a. Percent of Persons Reported to Have Selected Chronic Conditions, All Ages

	Ar	ea	Region	State
Chronic Condition	Percent	(+/-)	Percent	Percent
Cancer			3	3
Diabetes			3	3
Hypertension			11	11
Coronary Heart Disease	Data for	this	4	4
Heart Attack	table ar	e not	2	2
Stroke	available	below	1	1
Asthma	the county	y level.	9	8
Emphysema or Chronic				
Bronchitis			3	3
Arthritis			11	11
Any of the above			30	30

In Wisconsin, about 30 percent of all people report at least one chronic health condition, with arthritis and hypertension (high blood pressure) being the most frequently named conditions.

Table 2b. Percent of Persons Reported to Have Selected Chronic Conditions, by Age Groups

	<u> </u>	<65				65+			
	A	rea	Region	State	Area		Region	State	
Chronic Condition	%	(+/-)	%	%	%	(+/-)	%	%	
Cancer			2	2			12	13	
Diabetes			2	2			10	11	
Hypertension			8	8			43	41	
Coronary Heart Disease			2	2			23	21	
Heart Attack			1	1			10	10	
Stroke			0	0			6	6	
Asthma			9	8			7	8	
Emphysema or Chronic									
Bronchitis			2	2			7	7	
Arthritis			8	7			44	45	
Any of the above			25	24			77	78	

Statewide, about one-fourth of all people under age 65 report at least one chronic health condition, compared with more than three-fourths of all people age 65 and over.

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is based on persons who have ever been told by a doctor they have the listed condition. 95% confidence intervals are shown for the area estimates only, because they are based on smaller sample sizes than the estimates for the regions and the state (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

Table 3. Actual and Expected New Cancer Cases by Site

	Annual		1994	
	Average			Significant
Primary Site	1989-1993	Actual	Expected	Difference
Females				
Breast	34	26		
Colorectal	14	10		
Lung, Trachea &				
Bronchus	15	21		
Cervical	7	5		
Other Sites	47	51		
All Sites	117	113		
Males				
Colorectal	18	18		
Lung, Trachea &			Expected	values are
Bronchus	26	26	not availa	
Prostate	31	32	the coun	
Other Sites	48	62		
All Sites	123	138		
Total				
Colorectal	32	28		
Lung, Trachea &	41	47		
Bronchus				
Other Sites	167	176		
All Sites	240	251		

Source: Wisconsin Cancer Reporting System, Center for Health Statistics.

Note:

The "expected" number of new cases for 1994 was calculated based on statewide cancer incidence rates by age and sex (see Technical Notes). The last column indicates where there was a statistically significant difference between the expected number of new cases in 1994 and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.

Statewide, breast cancer accounted for about one-fourth of newly reported cancers among Wisconsin women in 1994. Prostate cancer represented about 30 percent of reported cancer incidence among men.

Lung cancer and colorectal cancer each accounted for 13 percent of total cancer incidence in 1994.

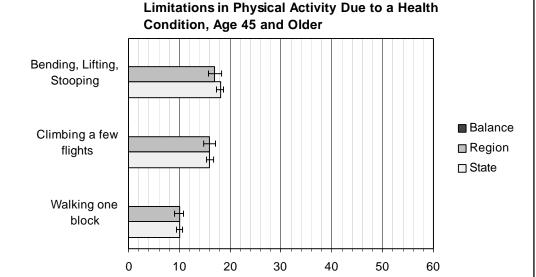
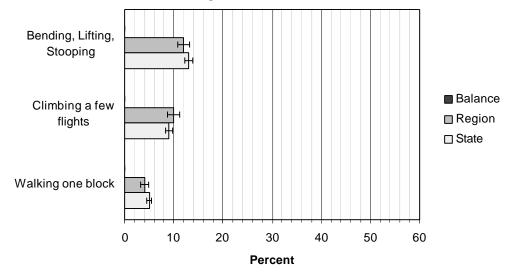


Figure 3a. Percent of Persons with Reported

Among all people age 45 and over in Wisconsin, a health condition limits physical bending, lifting or stooping for about 18 percent; climbing two flights of stairs for about 16 percent; and walking one block for about 10 percent.

Figure 3b. Percent of Persons with Reported Limitations in Physical Activity Due to a Health Condition, Ages 45-64

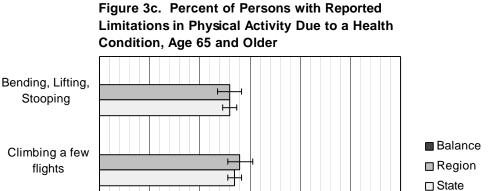
Percent



Among people ages 45-64, about 13 percent statewide indicate a limitation in bending, lifting or stooping due to a health condition.

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

Note: Percent is the proportion of adults whose health limits them in performing the listed activity. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.



Statewide, more than one-fourth of people age 65 and over face physical limitations in climbing stairs (about 27 percent) or bending, lifting, or stooping (about 26 percent).

Source: Family Health Survey, 1990-1994 combined data, Center for Health Statistics.

20

10

Note: Percent is the proportion of adults whose health limits them in performing the listed

30

Percent

40

50

60

activity. Range indicated on each bar represents a 95% confidence interval (see Technical Notes). Estimates based on fewer than 100 interviews are not shown.

USE OF SERVICES

Walking one block

Table 4. Number of Home Health Recipients with Chronic Conditions, 1994

Age	Develop. or Phys. Disability	Mental Illness	CNS Disorder	Other Chronic Condition
<55				
55-64		Data for this	table	
65-74		are not avai	lable	
75+	b	elow the coun		
Total				

Total

Source: Wisconsin Annual Survey of Home Health Agencies, Center for Health Statistics.

Note: This table provides unduplicated counts for 1994 of home health agency patients with chronic conditions; that is, patients whose primary diagnosis was a developmental or physical disability; a mental illness; a central nervous system (CNS) disorder, such as multiple sclerosis; or some other chronic condition. See Technical Notes for more detail about these categories. Counts of home health agency patients in various diagnostic categories are by *location of the agency*.

A chronic condition represented the primary diagnosis for about 29,000 clients of Wisconsin home health agencies in 1994.

Table 5.	Number of Residents of Skilled Nursing Facilities (SNFs) on
	December 31, 1994

	Develop.	Mental	Physical	All
Age	Disability	Illness	Disability	Others
<65	0	1	3	20
65-74	0	7	1	22
75-84	0	23	0	60
85+	0	23	0	80
Total	0	54	4	182

Source: Wisconsin Annual Survey of Nursing Homes, Center for Health Statistics.

Note:

SNFs are nursing homes licensed to provide medical care needed to restore residents to their rehabilitation potential. This table reflects an unduplicated count of all SNF residents; the count is by *location of the facility*. All SNF residents (regardless of diagnosis) are included in this table. See Technical Notes for detail about the diagnostic categories.

Table 6. Number of Persons Enrolled in the Community Options Program (COP) and Medicaid Waiver Programs in 1994

	Frail	Develop.	Mental	Physical			
Age	Elderly	Disability	Illness	Disability	Other		
<18							
18-44							
45-54							
55-64	Data for this table						
	are not available						
65-74		below	the county	level.			
75-84			· ·				
85+							
Total							

Source: Wisconsin Human Services Reporting System.

Note:

This table provides unduplicated counts of all persons enrolled in the COP and Medicaid waiver programs (CIP2, COP-W, CIP1A, CIP1B, CSLA), which are state-supervised and county-administered programs that provide community-based services to nursing-home-eligible persons. The count in this table reflects *county of residence*. See Technical Notes for more detail about the diagnostic categories.

In 1994, about half of all residents of Wisconsin skilled nursing facilities (SNFs) were age 85 or older.

Statewide, about 18,000 people were enrolled in the Community Options Program or Medicaid waiver programs in 1994; about half the enrollees were under age 65.

Table 7. Number of Publicly-Funded Residents of Community-Based Residential Facilities (CBRFs) in 1994

Age	Develop. Disability	Mental Illness	Physical Disability	AODA	Other
18-44					
45-64		Data	for this table	e	
65-74		are	not available	<u>.</u>	
75-84		below 1	the county le	vel.	
85+			v		
Total					

Source: Wisconsin Human Services Reporting System.

Note:

A CBRF is a home or facility where three or more adults live and receive supportive services in daily living, care, treatment, or protective services beyond room and board; CBRF services may not include nursing care on a permanent basis. This table provides unduplicated counts of persons whose residence in a CBRF in 1994 was publicly funded. (No counts of private-pay CBRF residents are available.) The count is by *resident's county of origin*. Fifty-two residents statewide were reported to be under 18 years of age, and were not included in this table. See Technical Notes for more detail about the resident categories.

Statewide, mental illness constituted the most prevalent primary diagnosis among residents with public funding in community-based residential facilities in 1994.

Table 8. Number of Residents of Facilities for the Developmentally Disabled (FDDs) on December 31, Selected Years

	1990	1992	1994
Total	Data for this table are not	available below the c	ounty level.
Course	Wissensin Annual Currery of Nursing Homes	Canton for Haalth Stat	istics

Source: Wisconsin Annual Survey of Nursing Homes, Center for Health Statistics.

Note:

FDDs are nursing homes licensed to provide active treatment and services to residents who are developmentally disabled, primarily due to mental retardation or cerebral palsy. This table reflects an unduplicated count of all FDD residents each year on December 31; the count is by *resident's county of origin*.

Statewide, there were about 3,400 residents in facilities for the developmentally disabled in 1994, nearly 500 fewer than in 1990.

Table 9. Number of Hospitalizations for Selected Chronic Conditions, by Age, 1994

Chronic Conditions	<18	18-44	45-64	65-74	75+
AIDS/HIV	0	0	0	0	0
Cancer					
Breast	0	6	21	1	8
Colorectal	0	2	11	13	13
Lung, Trachea, & Bronchus	0	0	8	9	8
Cervical	0	2	1	0	0
Prostate	0	0	16	23	3
Other Cancers	10	54	98	56	44
Diabetes	4	11	23	20	11
Mental Illness					
Affective Disorders	41	92	31	13	14
Schizophrenias/Psychoses	2	43	15	0	0
Anxiety/Char Dis Inc Deprsn	8	28	5	0	1
Dementias	0	0	0	5	15
Alcohol and Other Drug					
Abuse	5	48	8	3	0
Other Mental Illness	14	2	0	0	0
Paralysis & Cerebral Palsy	0	1	2	2	0
Hypertension	0	1	1	0	1
Congestive Heart Failure	0	0	32	57	104
Coronary Heart Disease	0	24	193	141	124
Stroke	0	11	54	65	100
Asthma	28	23	15	6	8
Other Chronic Lung Disease	0	1	18	28	26
Liver Disease/Cirrhosis	0	10	16	8	0
Other Chronic Condition	26	130	160	114	97
Total Hospitalizations for					
Chronic Conditions	138	489	728	564	577
Total Hospitalizations	1,470	2,409	1,663	1,221	1,371

Statewide, a chronic condition constituted the primary diagnosis for about 30 percent of the approximately 602,000 total hospitalizations in 1994.

Source: Office of Health Care Information, hospital inpatient database.

Note: Data are based on the principal diagnosis only. Conditions shown tend to be associated with long-term involvement with the health care system. See Technical Notes for the ICD-9-CM codes of these conditions.

Corrections to Mental Illness categories made January, 1998

Table 10. Actual and Expected Hospitalizations for Selected Chronic Conditions

Conditions	Annual		1994	_
	Average			Significant
Chronic Condition	1989-1993	Actual	Expected	Difference
AIDS/HIV	1	0		
Cancer				
Breast	40	36		
Colorectal	37	39		
Lung, Trachea, & Bronchus	28	25		
Cervical	3	3		
Prostate	31	42		
Other Cancers	272	262		
Diabetes	82	69		
Mental Illness				
Affective Disorders	177	191		
Schizophrenias/Psychoses	52	60	Expected	values are
Anxiety/Char Dis Inc Deprsn	40	42	not available below	
Dementias	18	20	the coun	ity level.
Alcohol and Other Drug				·
Abuse	84	64		
Other Mental Illness	20	16		
Paralysis & Cerebral Palsy	3	5		
Hypertension	11	3		
Congestive Heart Failure	199	193		
Coronary Heart Disease	497	482		
Stroke	187	230		
Asthma	96	80		
Other Chronic Lung Disease	58	73		
Liver Disease/Cirrhosis	16	34		
Other Chronic Conditions	471	527		
Total Hospitalizations for				
Chronic Conditions	2,420	2,496		_

Source: Office of Health Care Information, hospital inpatient database.

Note: Data are based on the principal diagnosis only. Conditions shown tend to be associated with long-term involvement with the health care system. See Technical Notes for the ICD-9-CM codes of these conditions. The "expected" number of hospitalizations was calculated based on statewide hospitalization rates by age and sex (see Technical Notes). The last column indicates where there was a statistically significant difference between the expected number of hospitalizations and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.

Corrections to Mental Illness categories made January, 1998

Coronary heart disease, congestive heart failure, stroke, cancer and chronic lung disease accounted for more than half of all 1994 Wisconsin hospitalizations for which a chronic condition constituted the primary diagnosis.

Table 11. Hospitalizations for a Chronic Condition with a Secondary Diagnosis of Diabetes, by Principal Diagnosis, 1994

Principal Diagnosis	<55	55-74	75+	Total
Mental Illness	4	4	0	8
Coronary Heart Disease	19	49	24	92
Stroke	0	21	23	44
Chronic Lung Disease	2	8	2	12
Other Chronic Condition	19	107	52	178
Total	44	189	101	334

Source: Office of Health Care Information, hospital inpatient database.

Note: This table presents only those hospitalizations with a secondary diagnosis of diabetes for which the principal diagnosis was one of the selected chronic conditions examined. Diabetes is also associated with hospitalizations for complications not shown here, such as limb amputations and kidney failure.

Table 12. Medicaid-Reimbursed Health Services for People with Chronic Conditions, 1994

		Payment
Services	Number of Recipients	(in thousands)
Hospitalizations - Inpatient	281	\$2,096
Hospitalizations- Outpatient	623	304
Nursing Home	276	14,233
Physician	1,161	583
Pharmacy	1,038	800
Home Care	48	350
Mental Health	266	107
Therapies	91	64
Other	1,132	629
Total	1.307	\$19.035

Source: Medicaid Claims, Bureau of Health Care Financing.

Note: The counts in this table do not include any services provided by an HMO. "Therapies" include physical therapy, occupational therapy, speech and hearing therapy, group therapy, and comprehensive outpatient therapy provided by rehabilitation agencies. "Other" includes emergency room, durable medical equipment, lab and X-ray, dental, transportation, HealthCheck, and all other Medicaid services. See Technical Notes for list of chronic conditions and their ICD-9-CM codes.

About 14 percent of all hospitalizations for a chronic condition included a secondary diagnosis of diabetes.

Statewide, Medicaid paid about \$1.6 billion for services to people with chronic health conditions in 1994.

MORTALITY

Table 13. Mortality Attributed to Selected Chronic Conditions, 1994

Chronic Condition	<45	45-64	65-74	75+
HIV/AIDS	2	0	0	0
Cancer				
Breast	1	5	8	2
Colorectal	2	1	4	6
Lung, Trachea, & Bronchus	1	9	13	16
Cervical	0	0	0	0
Prostate	0	1	1	6
Diabetes	0	1	7	9
Congestive Heart Failure	0	3	1	4
Coronary Heart Disease	3	20	33	111
Stroke	0	7	11	34
Chronic Lung Disease	0	2	9	18
Liver Disease/Cirrhosis	0	4	1	2
Total (Chronic Conditions)	9	53	88	208
Total (All Deaths)	57	94	133	369

In 1994, chronic conditions accounted for about half (24,390) of all Wisconsin deaths.

Source: Resident death certificates, Center for Health Statistics.

Note:

This table reflects the underlying cause of death. Several conditions may be cited on the death certificate; one is selected using criteria established by the National Center for Health Statistics as the "underlying cause of death," that is, "the disease or injury which initiated the chain of events leading directly or indirectly to death." See Technical Notes for ICD-9-CM codes.

Table 14. Actual and Expected Mortality for Selected Chronic Conditions

	Annual		1994	
Chronic Condition	Average 1989-1993	Actual	Expected	Significant Difference
HIV/AIDS	1	2		
Cancer				
Breast	12	16		
Colorectal	13	13		
Lung, Trachea, & Bronch	nus 43	39		
Cervical	1	0	Expected va	alues are
Prostate	9	8	not availa	ble below
Diabetes	15	17	the coun	ty level.
Congestive Heart Failure	9	8		
Coronary Heart Disease	173	167		
Stroke	42	52		
Chronic Lung Disease	28	29		
Liver Disease/Cirrhosis	5	7		
Total	352	358		

Statewide, coronary heart disease represented the leading cause of death due to a chronic health condition in 1994.

Source: Resident death certificates, Center for Health Statistics.

Note:

This table reflects the underlying cause of death (see note, Table 13). The "expected" number of deaths was based on statewide mortality rates by age and sex (see Technical Notes). The last column indicates whether there was a statistically significant difference between the expected number of deaths and the actual number. Two asterisks indicate significance at the .01 level and a single asterisk indicates significance at the .05 level.

Technical Notes

The regions used in this report reflect the uniform Department of Health and Family Services boundaries which became effective July 1996.

A blank column in a table and the absence of a bar in a figure indicate either that data are not available for a given geographic level, or that a stable estimate could not be calculated.

Chronic Conditions. As defined in *Chronic Disease Epidemiology and Control* (American Public Health Association, 1993), chronic conditions are those that have a prolonged course, that do not resolve spontaneously, and for which a complete cure is seldom achieved. These conditions are generally characterized by uncertain etiology, multiple risk factors, a long latency period, a prolonged course of illness, non-contagious origin, and functional impairment or disability. The conditions analyzed in this profile include the following diagnoses and their ICD-9-CM codes:

```
HIV (042-044)
Cancer (140-239)
        Breast (174-175)
        Cervical (180)
        Colorectal (153-154)
        Lung, Trachea, & Bronchus (162)
        Prostate (185)
        Leukemia (204-208)
        Other (140-152, 155-161, 163-173, 176-179, 181-184, 186-203, 209-239)
Diabetes (250)
Mental Disorders
        Dementias (290-290.43, 291.1, 291.2, 292.82, 292.83, 294.0, 294.1)
        Alcohol and Other Drug Abuse (291.0, 291.3, 292.0, 292.11, 292.84, 303.90,
                 304-304.90, 305-305.90)
        Schizophrenias / Psychoses (293.81, 293.82, 295.10-295.35, 295.60-295.95, 297.1-297.3)
        Affective Disorders (293.83, 296.2-296.7)
        Anxiety / Character and Miscellaneous Disorders (294.8, 294.9, 300.00-300.13,
                 301.00-301.82, 300.15-300.9, 301.84-301.9, 302.71-302.79, 306.51-307.0,
                 307.20, 307.21, 307.23-307.47, 307.80, 310.10, 780.52-780.54)
        Other Chronic Mental Disorders (300.14, 301.83, 307.1, 307.50-307.51, 299.00, 299.80,
                 307.22, 307.23, 307.52-307.7, 312.00-312.23, 313.82, 314.00, 314.01, 315.9)
Mental Retardation (317-319)
Alzheimer's Disease (331.0)
Parkinson's Disease (332)
Multiple Sclerosis and Other Diseases of the Central Nervous System (320-330, 331.1-331.9, 333-341)
Paralysis & Cerebral Palsy (342-344)
Glaucoma (365)
Cataracts (366)
Congestive Heart Failure (428, 402.01, 402.11, 402.91)
Hypertension (401, 402.00, 402.10, 402.90)
Coronary Heart Disease (410-414, 429.2)
Stroke (430-438)
Liver Disease / Cirrhosis (571)
Emphysema and Chronic Lung Disease (490-496, 500-504, 506, 507.8, 515-517),
        includes Asthma (493)
Arthropathies, Dorsopathies, & Rheumatism (710-729), includes Arthritis (710-719)
Osteopathies (730-739), includes Osteoporosis (733)
```

Family Health Survey. The Wisconsin Family Health Survey (FHS) is a statewide telephone survey using a stratified random sample of households in Wisconsin. One person in each household, who is most knowledgeable about the health of household members, answers the questions on behalf of all household members. Interviews are conducted each month of the year; a total of about 2,400 households are surveyed annually. Completed interviews are weighted to represent nonrespondents and to correct for disproportionate sampling rates across regions. The completed sample is considered to be representative of the Wisconsin household population, although it does not include any households without telephones and minority populations are somewhat underrepresented.

Confidence intervals. Figures using FHS data contain error bars at the end of each graph bar, indicating a 95% confidence interval. That is, there is a 95% chance that the actual percentage falls within the range indicated by the error bar. Tables 2a and 2b have a column labeled (+/-) that contains the 95% confidence interval associated with each county value.

Sample size. For all of the FHS analyses in this report, data from five years (1990-1994) were combined. This was done to provide more stable estimates at the county and regional levels for the age groups being considered. The confidence associated with estimates varies with the size of the sample used to produce the estimates. For example, estimates based on a sample of 200 might vary by as much as (plus or minus) 7 percent. In these profiles, FHS estimates are not available below the county level, except for the city of Milwaukee.

Behavioral Risk Factor Survey. The Wisconsin Behavioral Risk Factor Survey (BRFS) is a statewide telephone survey using a stratified random sample of households in Wisconsin. One adult is randomly selected from each household to be interviewed. Interviews are conducted each month of the year; a total of 1,500-2,100 households are surveyed annually. Completed interviews are weighted to represent nonrespondents and to correct for disproportionate sampling rates across regions. The completed sample is considered to be representative of the Wisconsin household population, although it does not include any households without telephones and minority populations are somewhat underrepresented.

Confidence intervals. See above discussion of confidence intervals.

Definition of behavioral risks. Figures 2a-2d show four health risks: (1) Sedentary lifestyle is defined by no leisure-time physical activity, or activities done for less than 20 minutes or fewer than 3 times per week. (2) Overweight is determined by a body mass index (weight in kilograms divided by height in meters squared) of 27.3 or greater for women and 27.8 or greater for men. (3) Smokers are those who smoke currently and have smoked more than 100 cigarettes in their lifetime. (4) Chronic drinkers are those who report consuming 60 or more drinks in the previous month. The Centers for Disease Control and Prevention defined these behavioral risk standards.

Sample size. Figures 2a-2d use combined data from five years of the survey to provide more stable estimates at the county and regional levels for the age groups being considered. Data from 1989-1992 and 1994 were used for sedentary lifestyle; 1990-1994 data were used for the other risks. The reader should be aware that the confidence associated with estimates varies with the size of the sample used to produce the estimates. For example, estimates based on a sample of 200 might vary by as much as (plus or minus) 7 percent. In these profiles, BRFS estimates are not available below the county level.

Cancer Reporting System. Table 3 is based on reported cancer cases from Wisconsin hospitals and clinics, out-of-state cancer registries, and Minnesota hospitals near the state border. Data are for Wisconsin residents only.

All malignant neoplasms (except basal cell carcinoma and squamous cell carcinoma which arise in the skin) are reportable to the Wisconsin Cancer Reporting System per state statute (255.04). Only newly diagnosed cases of primary tumor sites for a particular calendar year are included in the incidence count for that year.

The colorectal cancer group includes the following sites: colon, rectum, rectosigmoid junction, anus and anal canal.

Actual and Expected Values. Tables 3, 10 and 14 present actual and expected values for cancer incidence, hospitalizations and mortality, and indicate whether the differences are statistically significant. In this profile, the statewide age- and sex-specific rates for each event (i.e., site-specific cancer incidence, cause-specific hospitalizations and cause-specific mortality) are used as the "standard" against which each community is compared. CHS calculated the sex-specific rates for each chronic condition in five-year age increments, and applied these rates to the community's population to produce an expected number of cases in the community.

Actual values are affected by the age and sex distributions within the community. For example, because the risk of cancer increases with age, a higher than average number of cancer cases is usually found in communities whose proportion of elderly is greater than the state's. If the community is similar to the state in terms of age and sex distribution, a higher-than-expected number of cancer cases is probably due to factors other than age and sex.

The statistical test of significance indicates the probability that the difference did not occur by chance. In any statistical test, sample size can strongly influence the results. In large communities, smaller numerical differences may be statistically significant, whereas in smaller communities, large numerical differences might not meet the statistical test of significance. For this reason, the tests of significance should not be used to compare communities. Each community should evaluate both its actual and its expected values in developing intervention priorities.

Home Health Survey. The Wisconsin Home Health Survey is an annual survey of all home health agencies providing services to Wisconsin residents. Table 4 presents the number of patients reported, based on principal diagnosis. Diagnosis categories include slightly different groupings, depending on which survey form the agency used.

Category	Conditions and ICD-9-CM Diagnostic Codes
Developmental or Physical Disability	Mental Retardation (317-319), Paralysis and Cerebral Palsy (342-344)
Mental Illness and AODA	Senile Dementia (290), Mental Illness (291-302, 306-316) and Alcohol and Other Drug Abuse (303-305)
Central Nervous System	CNS disorders (320-341) or Multiple Sclerosis only (340-341)
Other Medical Conditions	HIV/AIDS (042-044), Cancer (140-239), Diabetes (250), Stroke (436-438), Respiratory Diseases (460-519) Arthopathies, Dorsopathies, and Rheumatism (710-729) or Arthritis (710-719) Osteopathies (730-739) or Bone Degeneration (730-733)

Nursing Home Survey. The Wisconsin Annual Survey of Nursing Homes is a survey of all facilities licensed to provide nursing care in Wisconsin. Patient counts in Table 5 present skilled nursing facility residents on December 31, 1994 by principal diagnosis.

Category	Conditions and ICD-9-CM Diagnostic Codes
Developmental Disabilities	Mental Retardation (317-319), Cerebral Palsy (343) Epilepsy (345), Autism (299), other developmental disabilities
Mental Disorders	Alzheimer's (331,290.1), Mental Illness (291-302, 306-316), Alcohol and Other Drug Abuse (303-305)
Physical Disabilities	Paraplegia (344.1-344.9), Quadriplegia (344), Hemiplegia (342)
Medical Conditions	Cancer (140-239), Fractures (800-839), Cardiovascular (390-429, 439-459), Cerebrovascular (430-438), Diabetes (250), Respiratory Diseases (460-519), and other medical conditions

Human Services Reporting System. The Wisconsin Human Services Reporting System (HSRS) tracks state-funded social services administered by counties. Community Option Program and Medicaid waiver clients are classified according to program requirements, which include assigning all clients over age 65 to the "frail elderly" category, meaning a fragile state of health related to multiple age-associated conditions. All other clients and community-based residential facility (CBRF) residents are categorized by primary diagnosis as follows:

Category	Condition and HSRS Code
Developmental Disabilities	DD codes 19, 23, 25, 26, 27, 28
Mental Illness	Mentally Ill (02), Chronically Mentally Ill (03), and Severely Emotionally Disturbed (86)
Physical Disabilities	Blind/Visually Impaired (07), Hearing Impaired (08), Physically Disabled/Mobility Impaired (09), Alzheimer's (18)*, Other Physical Disability (38)
Other	All other clients

^{*} COP and Waiver Programs only; does not apply to CBRF residents.

CBRF counts. CBRF data are unavailable for Burnett, Eau Claire, Iowa, Milwaukee, Monroe, Portage, Washburn, and Washington counties, and residents are significantly undercounted in Barron, Brown, Forest, Kenosha, Langlade, Lincoln, Manitowoc, Marathon, Oneida, Polk, Rusk, and Vilas counties. Residents are also slightly undercounted in Buffalo, Door, Douglas, Green, Juneau, Kewaunee, Marinette, Menominee, Oconto, Ozaukee, Racine, Richland, Sauk, and St. Croix counties. Regional and statewide CBRF residents are also undercounted.

Hospitalizations. The hospital findings presented in this profile are based on data extracted from each hospital's Uniform Billing Record (UB-82 or UB-92) and submitted to the Office of Health Care Information. The categories are defined by the chronic disease diagnosis codes listed on the first page of these Technical Notes. Unless otherwise noted, hospitalizations by cause reflect the first-listed diagnosis at discharge. Table 9 is based on all hospitalizations for chronic conditions of Wisconsin residents discharged in 1994. Table 10 is based on all such discharges from 1989 to 1994.

No data were available for Wisconsin residents hospitalized in other states. Caution is therefore advised when analyzing hospitalizations for residents of border counties. The counties most affected by this care pattern are: Ashland, Barron, Bayfield, Buffalo, Burnett, Douglas, Dunn, Florence, Grant, Iron, Marinette, Pepin, Pierce, Polk, St. Croix, and Washburn. If more complete data were available, the number of hospitalizations for residents of these counties would probably be higher.

Mortality. The conditions listed in Tables 13 and 14 are defined by the chronic disease diagnosis codes listed on the first page of these Technical Notes.